



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Receipt:
#2 FL1

NASA Case No.: KSC-12139-1)
Title: Thermodynamic Pressure/Temperature)
Transducer Health Check)
Inventors: Christopher D. Immer et al.)
Filed: 11/09/2001)
Application No.: 09/994,990)

Request Corrected Notice Regarding Filing Receipt

Date: APR 29 2002

Assistant Commissioner for Patents
Attn: Office of Initial Patent Examination's
Customer Service Center
Washington, D.C. 20231

Sir:

We respectfully request that the Updated Filing Receipt, dated 03/19/2002, Confirmation No. 9113, be corrected to reflect the fifth inventor, Stanley O. Starr. We have enclosed our response to the Missing Part Notification we received December 10, 2001.

Respectfully submitted,

Randall M. Heald
Registration No. 28,561
National Aeronautics and
Space Administration
Mail Code: CC-A
Kennedy Space Center, FL 32899
Phone: (321) 867-7214

COPY OF PAPERS
ORIGINALLY FILED



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/994,990	11/09/2001	3737	1248	KSC-12139- 1	7	27	6

CONFIRMATION NO. 9113

UPDATED FILING RECEIPT



OC000000007658401

Randall M. Heald
Patent Counsel
National Aeronautics and Space Administration
Mail Code: CC-A/John F. Kennedy Space Center
Kennedy Space Center, FL 32899

Date Mailed: 03/19/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Christopher D. Immer, Merritt Island, FL;
Anthony Eckhoff, Cocoa, FL;
Pedro J. Medelius, Merritt Island, FL;
Richard T. Deyoe, N.E. Palm Bay, FL;

Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/247,848 11/09/2000

Foreign Applications

If Required, Foreign Filing License Granted 12/10/2001

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

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Title

Thermodynamic pressure/temperature transducer health check

Preliminary Class

600

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



National
Aeronautics and
Space
Administration

Patent Application Receipt

NASA CASE NO.
FILING DATE
APPLICATION SERIAL NO.
APPLICANT
TITLE

:KSC-12139-1
:11/09/01
:09/984,990
:Christopher Immer et al
:SEE BELOW

RECEIPT OF THE FOLLOWING PAPERS IS EVIDENCED HEREON BY THE OFFICIAL STAMP OF THE UNITED STATES
PATENT AND TRADEMARK OFFICE.

TITLE: Thermodynamic Pressure/Temperature Transducer Health
Check

Missing Part - Transmittal of Declaration - Please charge
Deposit Account \$130.

NASA FORM 432 SEP 96 PREVIOUS EDITIONS ARE OBSOLETE.



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NASA Case No.: KSC-12139-1

COPY OF PAPERS
ORIGINALLY FILED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Christopher Immer et al)
Serial No.: 09/984,990)
Filed: 11/09/2001)
For: Thermodynamic Pressure/)
Temperature Transducer Health)
Check)

FEB 8 2002

Commissioner of Patents
and Trademarks
Washington, DC 20231
ATTENTION: Box Missing Part

TRANSMITTAL OF DECLARATION

In accordance with 37 CFR 1.16 (e), attached herewith is the declaration (original plus a copy) and a copy of the PTO Formalities Letter. The surcharge payment is paid as follows:

Please charge account No. 14-0116 the sum of \$130 and charge any additional fees.

Respectfully submitted,

Randall M. Heald
Attorney for Applicant
Registration No. 28,561

Correspondence address:

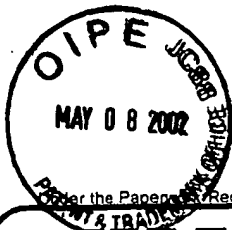
NASA, John F. Kennedy Space Center
Mail Code: CC-A
Office of the Chief Counsel
Kennedy Space Center, FL 32899
Tel. No.: (321) 867-7214

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231.

Date: 2/8/02

Carol Anne Dunn, Paralegal Specialist



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PTO/SB/17 (11-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)

Complete if Known

Application Number	09/984,990
Filing Date	11/09/01
First Named Inventor	Christopher Immer
Examiner Name	Unknown
Group Art Unit	3737
Attorney Docket No.	KSC-12139-1

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number
14-0116

Deposit Account Name
Randy Heald

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims		-20** =		
Independent Claims		-3** =		
Multiple Dependent				

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	\$130
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

130

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Randall M. Heald	Registration No. (Attorney/Agent)	28,561	Telephone	321-867-7214
Signature	<i>Randall M Heald</i>	Date	02/08/02		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/994,990	11/09/2001	Christopher Immer	KSC-12139-1

CONFIRMATION NO. 9113

FORMALITIES LETTER



OC000000007176323

Randall M. Heald
Patent Counsel
National Aeronautics and Space Administration
Mail Code: CC-A/John F. Kennedy Space Center
Kennedy Space Center, FL 32899

Date Mailed: 12/10/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

*A copy of this notice **MUST** be returned with the reply.*

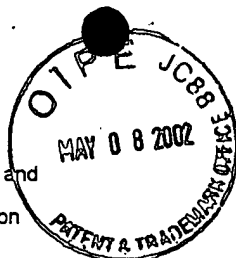
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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Administration



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Patent Application

KSC-12139-1
(NASA Case No.)

Declaration, Power of Attorney and Petition - Original Application

As a below named inventor, I hereby declare that: My residence, mailing address and citizenship, are stated below next to my name, I believe I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Thermodynamic Pressure/Temperature Transducer Health Check

the specification of which ☐ is attached hereto, ☒ was filed on (Date) 11/09/2001
as Application Serial No. 09/994,990 and was amended (Date) _____

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information which is known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

_____, _____, the status of which is ☐ patented, ☐ pending, ☐ abandoned
(Serial No.) (Filing Date)

I hereby claim priority benefits under Title 35, United States Code §119(e) of any United States Provisional Applications listed below:

60/247,848, 11/09/2000, the status of which is pending.
(Provisional Serial No.) (Filing Date)

POWER OF ATTORNEY: I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

- ☐ Registered practitioner(s) at Customer Number _____, OR
☒ Registered practitioner(s) listed below

<u>Randall M. Heald</u> (Name)	<u>28,561</u> (Reg. No.)	<u>Gary G. Borda</u> (Name)	<u>35,455</u> (Reg. No.)
<u>Alan J. Kennedy</u> (Name)	<u>28,625</u> (Reg. No.)	<u>Harry Lupuloff</u> (Name)	<u>31,117</u> (Reg. No.)
<u>Sue H. Palk</u> (Name)	<u>36,422</u> (Reg. No.)	<u>John G. Mannix</u> (Name)	<u>27,254</u> (Reg. No.)

ADDRESS ALL CORRESPONDENCE TO:

- ☐ Customer Number _____, OR
☒ Correspondence Address listed below:

Name: Randall M. Heald, Patent Counsel
Address: Mail Code: CC-A/NASA
John F. Kennedy Space Center
Kennedy Space Center, FL 32899

DIRECT TELEPHONE CALLS TO:

Telephone (Complete number to be dialed from USPTO):
321-867-7214

Further, as a named inventor, I certify that the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration has ☒ an assignment in, or ☐ license to the invention set forth in this application and has the irrevocable right to prosecute this application and to receive the patent.

Wherefore, I pray that Letters Patent be granted to me for this invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification, claims, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	LAST Immer	FIRST Christopher	MIDDLE OR INITIAL D.
RESIDENCE AND	CITY Merritt Island	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 255 S Tropical Trail, Apt#605	CITY AND STATE (OR COUNTRY) Merritt Island, FL	ZIP CODE 32952
SIGNATURE <i>Christopher A Immer</i>			DATE 2/01/02

FULL NAME OF INVENTOR	LAST Eckhoff	FIRST Anthony	MIDDLE OR INITIAL
RESIDENCE AND	CITY Cocoa	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 511 Carter St.	CITY AND STATE (OR COUNTRY) Cocoa, FL	ZIP CODE 32927
SIGNATURE <i>Anthony J Eckhoff</i>			DATE 02/01/02


FULL NAME OF INVENTOR	LAST Medelius	FIRST Pedro	MIDDLE OR INITIAL J.
RESIDENCE AND	CITY Merritt Island	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 845 Lakewood Circle	CITY AND STATE (OR COUNTRY) Merritt Island	ZIP CODE 32952
SIGNATURE <i>Pedro J Medelius</i>			DATE 2/01/02

FULL NAME OF INVENTOR	LAST Deyoe	FIRST Richard	MIDDLE OR INITIAL T.
RESIDENCE AND	CITY N.E. Palm Bay	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 126 Goldcoast Road	CITY AND STATE (OR COUNTRY) N.E. Palm Bay, FL	ZIP CODE 32907
SIGNATURE <i>R Deyoe</i>			DATE 2/01/02

Further, as a named inventor, I certify that the Government of the United States of America, as represented by the Administrator of the National Aeronautics and Space Administration has ☒ an assignment in, or ☐ license to the invention set forth in this application and has the irrevocable right to prosecute this application and to receive the patent.

Wherefore, I pray that Letters Patent be granted to me for this invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification, claims, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR	LAST Starr	FIRST Stanley	MIDDLE OR INITIAL O.
RESIDENCE AND	CITY Indialantic	STATE OR FOREIGN COUNTRY FLORIDA	COUNTRY OF CITIZENSHIP U.S.A.
MAILING ADDRESS	STREET NO. AND NAME 3069 Rio Bonita St.	CITY AND STATE (OR COUNTRY) Indialantic, FL	ZIP CODE 32903
SIGNATURE 			DATE 2/01/02

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE

FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
SIGNATURE			DATE